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NOTICE OF ALLOWANCE AND FEE(S) DUE

24504 7590 09/22/2008

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 600 GALLERIA PARKWAY, S.E.

STE 1500 ATLANTA GA 30339-5994

EXAMINER TOPGYAL, GELEK W

PAPER NUMBER ARTHNIT

2621 DATE MAILED: 09/22/2008

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO 10/667.079 09/18/2003 Yung-Chao Tseng 250320-1050 1446

TITLE OF INVENTION: METHOD OF ENCODING AND DECODING PICTURE DATA FOR ENHANCING IMAGE RESOLUTION

APPLN, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional YES \$720 \$300 \$1020 12/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includir ed below or directed oth	or transmitting the ig the Patent, advan- nerwise in Block 1,	nce orders and notificati by (a) specifying a nev	on of n	naintenance fees wi pondence address;	ll be and/or	mailed to the current (b) indicating a sepa	corresp trate "F	ondence address as EE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
600 GALLERIA STE 1500	7590 09/22 AYDEN, HORSTE PARKWAY, S.E.		ISLEY, LLP		Conti	Gente	of Mailing or Trans s) Transmittal is being ficient postage for fire ISSUE, FEE address I) 273-2885, on the d	mission	
ATLANTA, GA	. 30339-5994								(Depositor's name)
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				L					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INV	ENTOR	TOR		ATTORNEY DOCKET NO.		FIRMATION NO.
10/667,079 TITLE OF INVENTION	09/18/2003 : METHOD OF ENCOR	DING AND DECOR	Yung-Chao Te DING PICTURE DATA I	-	THANCING IMAGI		250320-1050 SOLUTION		1446
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FE	E DUE	PREV. PAID ISSUE FEE		TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES	\$720	\$300		\$0		\$1020		12/22/2008
EXAM	INER	ART UNIT	CLASS-SUBCL/	ASS]				
TOPGYAL,	GELEK W	262I	386-046000	,					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl recordation as set fort	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.II. Comp	nge of Corresponde Indication form ed. Use of a Custon TO BE PRINTED	(I) the names of or agents OR, a (2) the name of registered attor, 2 registered paterial steel, no name on THE PATENT (printing agee data will appear of NOT a substitute for fi	of up to lternative a single ney or a ent attor will be nt or type n the pa	e firm (having as a agent) and the name meys or agents. If n printed. e) atent. If an assigne- assignment.	memb s of up o nam	er a 2		it has been filed for
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4a. The following fee(s): Issue Fee Publication Fee (N Advance Order - 4	o small entity discount p	permitted)	A check is end Payment by cr	losed. edit car	d. Form PTO-2038	is atta	ched. required fee(s), any de		
	s SMALL ENTITY state	is. See 37 CFR 1.27					ITTY status. Sec 37 C		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be ac tes Patent and Trade	cepted from anyone othe mark Office.	r than t	he applicant; a regis	tered a	attorney or agent; or th	ne assign	nee or other party in
Authorized Signature					Date				
Typed or printed name				Registration No.					
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this but firginia 22313-1450. DC 13-1450.	ER 1.311. The infor U.S.C. 122 and 37 USPTO. Time will rden, should be sent O NOT SEND FEES	rmation is required to ob CFR 1.14. This collectic I vary depending upon the to the Chief Information OR COMPLETED FOL	tain or r on is est ne indiv n Office RMS TO	etain a benefit by th imated to take 12 m idual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment Traden SENI	lic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep D TO: Commissioner	I by the ig gathe me you artment for Pate	USPTO to process) ring, preparing, and require to complete of Commerce, P.O. nts, P.O. Box 1450,

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10/667,079	09/18/2003	Yung-Chao Tseng	250320-1050	1446	
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THOMAS, KAY	DEN, HORSTEME	TOPGYAL, GELEK W			
600 GALLERIA P	ARKWAY, S.E.		ART UNIT	PAPER NUMBER	
STE 1500 ATLANTA, GA 3	0339-5994	2621 DATE MAILED: 09/22/2008			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1008 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1008 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/667,079	TSENG ET AL.				
Examiner	Art Unit				
GELEK TOPGYAL	2621				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant See 37 CFR 1 313 and MPEP 1308

- of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

 1. N This communication is responsive to amendment filed 7/30/2008.
- The allowed claim(s) is/are 1-6,9-10,12-18,20,26-28,30 (renumbered as 1-20).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date ____
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ______.

 Identifying indicts such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2621

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Application/Control Number: 10/667,079

Art Unit: 2621

DETAILED ACTION

Allowable Subject Matter

- Claims 1-6 are allowed. Claims 12-18, 20, 26-28 and 30 have been previously allowed.
- 2. The following is an examiner's statement of reasons for allowance: Independent claim 1 recites the uniquely distinct features for "evenly decomposing and distributing the plural image pixels of the high-resolution image, adjacent along a vertical direction or a horizontal screen on a screen, into corresponding plural pixels of primary image data of standard image resolution, wherein the corresponding plural pixels are located at a same pixel position; encoding at least one primary image data to form a disc playable image data; storing one set of the primary image data into the video-audio data format of the high-resolution image data carrier and storing another primary image data set separately into the plural of user data formats playing back one set of the primary image data from the video-audio data format by any playback apparatus if low resolution is required" and "an image-combining unit for acquiring the primary image data at a same position of the user data format to combine and restore the highresolution image". The closest prior art Nonweiler (US 5,483,296), Hughes, Jr. et al. (US 6,633,725), Oshima et al. (US 6,573,819), Oami (US 6,363,119), Poulter et al. (US 5,559,936) and Honjo (US 4,963,991) disclose systems that allow for storage and rendering of high-resolution images using division of the frame sequence or the creation

Application/Control Number: 10/667,079

Art Unit: 2621

of base and enhancement layers, either singularly or in combination, fail to anticipate or render the above limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GELEK TOPGYAL whose telephone number is (571)272-8891. The examiner can normally be reached on 8:30am -5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Gelek Topgyal/ Examiner, Art Unit 2621

/Thai Tran/ Supervisory Patent Examiner, Art Unit 2621